

Type revisions of Ichneumonidae (Hymenoptera) described by KRIECHBAUMER from Mallorca

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Abstract

KRIECHBAUMER described 31 taxa of Ichneumonidae from Mallorca, the types of which are revised here. Lectotypes are designated for the following taxa: *Ichneumon moraguesi* KRIECHBAUMER, *Apaeticus balearicus* KRIECHBAUMER, *Phaeogenes balearicus* KRIECHBAUMER, *Phaeogenes bellulus* KRIECHBAUMER, *Ischnus balearicus* KRIECHBAUMER, *Ischnus pictipes* KRIECHBAUMER, *Goniocryptus parvulus* KRIECHBAUMER, *Microcryptus tricolor* KRIECHBAUMER, *Microcryptus contrarius* KRIECHBAUMER, *Phygadeuon anthracinus* KRIECHBAUMER, *Phygadeuon balearicus* KRIECHBAUMER, *Phygadeuon micromelas* KRIECHBAUMER, *Bassus balearicus* KRIECHBAUMER, *Homoporus bifoveolatus* KRIECHBAUMER, *Pimpla tricolor* KRIECHBAUMER, *Pimpla cingulata* KRIECHBAUMER, *Glypta rufiventris* KRIECHBAUMER, *Sagaritis balearica* KRIECHBAUMER, *Sagaritis trochanterata* KRIECHBAUMER, *Sagaritis moraguesi* KRIECHBAUMER. Ten new synonyms are indicated: *Ctenichneumon edictorius* (LINNAEUS) syn. *Amblyteles fossorius* (GRAVENHORST) var. *nigrascutellata* KRIECHBAUMER, *Apaeticus inimicus* (GRAVENHORST) syn. *Apaeticus balearicus* KRIECHBAUMER, *Diadromus collaris* (GRAVENHORST) syn. *Phaeogenes bellulus* KRIECHBAUMER, *Heterischmus ridibundus* (COSTA) syn. *Ischnus balearicus* KRIECHBAUMER, *Meringopus nigerrimus nigerrimus* (BOYER DE FONSCOLMBE) syn. *Cryptus balearicus* KRIECHBAUMER, *Trychosis legator* (THUNBERG) syn. *Trychosis timenda* VAN ROSSEM, *Aptesis flagitator* (ROSSI) syn. *Microcryptus tricolor* KRIECHBAUMER, *Phygadeuon troglodytes* GRAVENHORST syn. *Phygadeuon anthracinus* KRIECHBAUMER, *Syphoctonus signatus* (GRAVENHORST) var. *hygrobius* (THOMSON) syn. *Homoporus bifoveolatus* KRIECHBAUMER, *Scambus elegans* (WOLDSTEDT) syn. *Epiurus erythronotus* FÖRSTER.

Introduction

KRIECHBAUMER (1894) described 30 species and one variety of Ichneumonidae, after he had received the material from the Presbitero D. F. MORAGUES from Palma de Mallorca. Apparently he sent back most of the material to the collector, and retained only some duplicates, because only some types of these species have been found in the KRIECHBAUMER collection in the Zoologische Staatssammlung, München, and were revised by AUBERT (1974). Most of the types were thought to be lost, until we traced the MORAGUES collection in the Seminario Diocesano de Mallorca in Palma de Mallorca. Mr. J. PUIDRÓS from that institution kindly gave permission to remove the Ichneumonidae from the collection for further study. After the end of our studies, the material, including the types, will be given to the Museo Nacional de Ciencias Naturales, Madrid, for future preservation.

The material from the MORAGUES collection is in a rather bad condition. The boxes were partly broken, the specimens are faded by light, and some of them are badly damaged by dermestids. Some species are missing. Because of the poor condition of many specimens, we glued most of them on tabs. The material was poorly labelled. Name labels written by MORAGUES were fixed to the bottom of the boxes, and were transferred by us to one of the types or to the only type, respectively. The only original pin labels are labels with numbers, apparently referring to a determination list, and blue round tabs without inscription, which may have the meaning "revised by KRIECHBAUMER". They are attached to types of new species and to specimens of species not described by KRIECHBAUMER, but only to one specimen of a series. The other specimens were found unlabelled. As a consequence, some specimens apparently have been misplaced in the collection. Although KRIECHBAUMER (1894) published precise locality dates, there are no locality labels present in the material revised by KRIECHBAUMER,

and the information about localities and dates of collection probably was given on a separate list. There is some more material in the collection, with locality labels and dates of collection later than 1894, but without indication that it might contain additional types. The material in the KRIECHBAUMER collection in München is in a much better condition, but the specimens do not bear any original labels either, and all extant labels have been written by KRIECHBAUMER or by subsequent taxonomists. Because the number of specimens belonging to a type series is not known in most cases, we usually designate lectotypes also in those cases in which only one specimen is present in the collections now.

We want to thank Mr. J. PUJDRÓS (Seminario Diocesano, Palma de Mallorca) for the permission to remove the Ichneumonidae from the MORAGUES collection and to transfer them to the Madrid museum, and Mr. E. DILLER (Zoologische Staatssammlung, München) for sending some KRIECHBAUMER types for study and for determinations of some Ichneumoninae.

Revisions

Ichneumon balearicus KRIECHBAUMER, 1894: 240

Holotype (? lectotype) (♀) labelled by AUBERT: "*Ichneumon balearicus* m. ♀." (München).

Valid name: *Virgichneumon digrammus* (GRAVENHORST, 1820) (BERTHOUMIEU 1896: 396; AUBERT 1974: 263).

Ichneumon Moraguesi KRIECHBAUMER, 1894: 240

Lectotype (♀) designated: "32.", blue round tab, "*Ichneumon Moraguesi*. KCHB." (tip of gaster missing) (Madrid).

Valid name: *Barichneumon bilumidatus* (GRAVENHORST, 1829) (BERTHOUMIEU 1896: 396; DILLER vid.).

Amblyteles fossorius (GRAVENHORST) var. *nigroscutellata* KRIECHBAUMER, 1894: 241

Holotype (♂): without original label (Madrid). Although KRIECHBAUMER explicitly mentioned one specimen, there are three males present in the MORAGUES collection now. Because only one of these agrees with the descriptions of GRAVENHORST (1829: 233 f.) and WESMAEL (1854: 125), referred to by KRIECHBAUMER (l. c.), this specimen is considered to be the holotype.

Valid name: *Ctenichneumon edictorius* (LINNAEUS, 1758), syn. nov. (DILLER det.).

Apaeticus balearicus KRIECHBAUMER, 1894: 241

Lectotype (♀) designated: "3.", blue round tab, "*Apaeticus balearicus*. KCHB." (greater parts of the head, antennae, front and middle legs and gaster missing) (Madrid).

Valid name: *Apaeticus inimicus* (GRAVENHORST, 1820), syn. nov. (DILLER det.).

Phacogenes (?) *balearicus* KRIECHBAUMER, 1894: 241

Lectotype (♂) designated: "4.", blue round tab, "*Phacogenes Balearicus*. KCH." (Madrid). AUBERT (1974: 264) referred to a specimen in the München museum, but this has no type status.

Valid name: *Centeterus balearicus* (KRIECHBAUMER, 1894), comb. nov. (DILLER det.).

Phacogenes bellulus KRIECHBAUMER, 1894: 241 f.

Lectotype (♂) designated: "5.", blue round tab, "*Phacogenes bellulus*. KCHB." (Madrid).

Valid name: *Diadromus collaris* (GRAVENHORST, 1829), syn. nov. (DILLER det.). This interpretation has been suggested before by AUBERT (1974: 264).

***Ischnus* (?) *balearicus* KRIECHBAUMER, 1894: 242**

Lectotype (♂) designated: "6.", blue round tab, "*Ischnus Balearicus*. KCHB." (one flagellum, one hind wing and greater parts of the gaster missing) (Madrid).

Valid name: *Heterischnus vidibundus* (COSTA, 1885), syn. nov. (DILLER det.). This interpretation has been suggested before by AUBERT (1980: 3).

***Ischnus pictipes* KRIECHBAUMER, 1894: 242**

Lectotype (♀) designated: "7.", blue round tab, "*Ischnus pictipes*. KCHB." (specimen broken; greater parts of the legs and tip of the gaster missing) (Madrid).

Valid name: *Heterischnus proximus* (COSTA, 1885) (AUBERT 1980: 3; DILLER vid.).

***Cryptus balearicus* KRIECHBAUMER, 1894: 242**

Types (? holotype) lost.

Valid name: *Meringopus nigerrimus nigerrimus* (BOYER DE FONSCOLOMBE, 1850), syn. nov. This interpretation has been suggested before by SEYRIG (1928: 149). The specimen determined as *C. balearicus* by HABERMEHL (1927: 107) is placed to *M. nigerrimus nigerrimus* by VAN ROSSEM (1969: 191).

***Goniocryptus parvulus* KRIECHBAUMER, 1894: 243**

Lectotype (♂) designated (labelled as holotype by AUBERT): "Mallorca MORAGUES leg." (München). Paralectotype (♂): "8.", blue round tab, "*Goniocryptus parvulus*. KCHB." (Madrid).

Valid Name: *Trychosia legator* (THUNBERG, 1822) (AUBERT 1974: 265). The types run to *T. timenda* VAN ROSSEM in the key of VAN ROSSEM (1990: 107). But the latter species cannot be separated from *T. legator* with the characteristics given by VAN ROSSEM, and a revision of the types of *T. timenda* proved that both taxa are synonyms (syn. nov.).

***Hoplocryptus Mallorcanus* KRIECHBAUMER, 1894: 243**

Types (? holotype) lost. There is a female under this name in coll. MORAGUES (Madrid) with the labels: blue round tab, "*Hoplocryptus Mallorcanus*. KRCHB.", which does not agree at all with the description. It belongs to *Gambrius incubitor* (LINNAEUS) (syn. *inferus* THOMSON).

Valid name: *Aritranis fugitiva* (GRAVENHORST, 1829) (AUBERT 1974: 266).

***Microcryptus tricolor* KRIECHBAUMER, 1894: 243 f.**

Lectotype (♀) designated: "39.", blue round tab, "*Microcryptus tricolor*. KCB." (nearly all of the head missing, one antenna present) (Madrid).

Valid name: *Aptesis flagitator* (ROSSI, 1794), syn. nov.

***Microcryptus contrarius* KRIECHBAUMER, 1894: 244 (praeocc.)**

Lectotype (♂) designated: "40.", blue round tab, "*Microcryptus contrarius*. KRCHB." (Madrid).

Valid name: *Aptesis opposita* (KRIECHBAUMER, 1902), comb. nov. The replacement name was published by DALLE TORRE (1902: 708), but DALLE TORRE explicitly referred the name to KRIECHBAUMER, who had written it to him in a letter. Therefore KRIECHBAUMER has to be taken as the author of *A. opposita*, following article 50a of the Code.

***Phygadeuon anthracinus* KRIECHBAUMER, 1894: 244 f.**

Lectotype (♀) designated: "41.", blue round tab, "*Phygadeuon anthracinus*. KCHB." (gaster faded) (Madrid).

Valid name: *Phygadeuon troglodytes* GRAVENHORST, 1829, syn. nov. This interpretation has been suggested before by AUBERT (1959: 147; 1964: 152) and HORSTMANN (1975: 105).

***Phygadeuon balearicus* KRIECHBAUMER, 1894: 245**

Lectotype (♂) designated: "9.", blue round tab, "*Phygadeuon balearicus*. KRCHB." (Madrid).

Valid name: *Ethelurgus balearicus* (KRIECHBAUMER, 1894), comb. nov. DE GRAHAM (1988: 22) mentioned both sexes of this species under the name "*Ethelurgus* sp." from Madeira. This material (Natural History Museum, London) was compared with the type of *P. balearicus*.

***Phygadeuon micromelas* KRIECHBAUMER, 1894: 245**

Lectotype (♂) designated (labelled as holotype by AUBERT): without original label (München). Paralectotype (♂): "10.", blue round label, "*Phygadeuon micromelas*. KRCHB." (Madrid). The paralectotype belongs to another species.

Valid name: *Gelis exarcolatus* (FÖRSTER, 1850) (AUBERT 1974: 269 f.).

***Tryphon (Mesoleius) balearicus* KRIECHBAUMER, 1894: 245 f.**

Types (? holotype) lost.

Species uninterpreted.

***Bassus balearicus* KRIECHBAUMER, 1894: 246**

Lectotype (♀) designated: "12.", blue round label, "*Bassus Balearicus*. KRCHB." (only small parts of the thorax, one front and one hind wing, one middle leg and two hind legs, the propodeum and basal parts of the gaster present) (Madrid)

Valid name: *Diplazon laetatorius* (FABRICIUS, 1781) (SCHMIEDEKNECHT 1926: 3346).

***Homoporus bifoveolatus* KRIECHBAUMER, 1894: 246 f.**

Lectotype (♂) designated: without original label (parts of the gaster missing) (Madrid). Paralectotype (♂): "14.", blue round tab, "*Homoporus bifoveolatus*. KRCHB." (more damaged) (Madrid). Both types apparently belong to the same species.

Valid name: *Syrphoctonus signatus* (GRAVENHORST, 1829) var. *hygrobius* (THOMSON), syn. nov.

***Pimpla semivaria* KRIECHBAUMER, 1894: 247 f.**

Syntype (sex ?): "43.", blue round tab, "*Pimpla semivaria*. KRCHB." (only one front wing present) (Madrid).

Valid name: *Tromatobia ornata* (GRAVENHORST, 1829) (SCHMIEDEKNECHT 1934: 104). The remains of the type are not at variance with this interpretation.

***Pimpla tricolor* KRIECHBAUMER, 1894: 248 (praeecc.)**

Lectotype (♂) designated (labelled as holotype by OEHLKE): "Mallorca MORAGUES", "*Pimpla tricolor* KRCHB. ♂." (nearly all of the antennae and some legs missing) (München). Paralectotype (♂): "17.", blue round tab, "*Pimpla tricolor*. KRCHB." (more damaged) (Madrid). Both types belong to the same species.

Valid name: *Tromatobia ornata* (GRAVENHORST, 1829) (OEHLKE 1967: 17 f.).

***Pimpla (Epiurus) balearica* Kriechbaumer, 1894: 248 f.**

Syntype (sex ?): "18.", blue round tab, "*Pimpla balearica*. KRCHB." (only the wings present) (Madrid). Two more specimens are found under this name, one in Madrid and the other in München, but both disagree with the description.

Valid name: *Scambus brevicornis* (GRAVENHORST, 1829) (SCHMIEDEKNECHT 1934: 139). The remains of the type are not at variance with this interpretation.

***Pimpla cingulata* KRIECHBAUMER, 1894: 249 (praeocc.)**

Lectotypus (♂) designated: "19.", blue round tab, "*Pimpla cingulata*. KRCHB." (Madrid).

Valid name: *Zaglyptus varipes* (GRAVENHORST, 1829) (OEHLKE 1967: 19). This interpretation has been suggested before by PERKINS (1943: 260).

***Glypta rufiventris* KRIECHBAUMER, 1894: 249**

Lectotype (♀) designated (labelled as holotype by AUBERT): "*Glypta rufiventris* KRCHB. ♀." (gaster missing) (München). Paralectotype (♀): "44.", blue round tab, "*Glypta rufiventris*. KRCHB." (parts of the gaster missing, ovipositor present) (Madrid). Both types apparently belong to the same species.

Valid name: *Glypta rufiventris* KRIECHBAUMER, 1894. The types agree with the interpretation of REY DEL CASTILLO (1989: 197).

***Sagaritis balearica* KRIECHBAUMER, 1894: 250**

Lectotype (? ♂) designated: "22.", blue round tab, "*Sagaritis balearica*. KRCHB." (greater parts of the head, thorax and propodeum, all of the gaster and the legs except one front leg missing) (Madrid).

Valid name: ? *Hyposoter balearicus* (KRIECHBAUMER, 1894). It might be possible to identify the type when the Campopleginae from Mallorca are better known.

***Sagaritis periscelis* KRIECHBAUMER, 1894: 250 f.**

Types lost. There is a female under this name in the MORAGUES collection with the labels: "13.", blue round tab, "*Sagaritis periscelis*. KRCHB.", which does not agree at all with the description. It is badly damaged, and apparently belongs to the Diplazontinae. As can be seen from the determination numbers, KRIECHBAUMER had also placed it among the Diplazontinae (see above under *Bassus balearicus* and *Homoporus bifoveolatus*), and it had been misplaced thereafter.

Species uninterpreted.

***Sagaritis trochanterata* KRIECHBAUMER, 1894: 251**

Lectotype (♀) designated (labelled as holotype by AUBERT): "Mallorca MORAGUES leg." (München). Paralectotype (♀): "24.", blue round tab, "*Sagaritis trochanterata*. KRCHB." (parts of the gaster missing) (Madrid). Both types belong to the same species.

Valid name: *Campoletis annulata* (GRAVENHORST, 1829) (AUBERT 1974: 272).

***Sagaritis (?) dorsalis* KRIECHBAUMER, 1894: 251 f.**

Types lost. There is a specimen (? ♂) under this name in the MORAGUES collection, with the labels "26.", blue round tab, "*Sagaritis dorsalis*. KCHB." (parts of the head and tip of the gaster missing). It might be the male tentatively placed to this species by KRIECHBAUMER. It therefore does not represent a type. The male belongs to *Campoletis* FÖRSTER.

Species uninterpreted.

***Sagaritis (?) Moraguesi* KRIECHBAUMER, 1894: 252 f.**

Lectotype (♀) designated: "27.", blue round tab, "*Sagaritis Moraguesi*. KRCHB." (parts of the gaster missing) (Madrid).

Valid name: *Diadegma (Nythobia) moraguesi* (KRIECHBAUMER, 1894), comb. nov.

Canidia balearica KRIECHBAUMER, 1894: 253

Types (? holotype) lost.
Species uninterpreted.

Casiniaria parvula KRIECHBAUMER, 1894: 253

Types (? holotype) lost.
Species uninterpreted.

Appendix: *Epiurus erythronotus* FÖRSTER in SCHMIEDEKNECHT, 1888: 524

OEHLEKE (1967: 5) and AUBERT (1969: 31) mentioned a taxon "*Pimpla erythronota* KRIECHBAUMER, 1894", which they synonymized with *Scambus elegans* (WOLDSTEDT, 1877). Both referred to KRIECHBAUMER (1894: 248) for the description. But KRIECHBAUMER cited FÖRSTER as the author, and it can be deduced from his publication that *Epiurus erythronotus* FÖRSTER is one of the species described by FÖRSTER and published by SCHMIEDEKNECHT (1988: 524), which were discussed by HORSTMANN (1990: 54 f.). One female in the MORA-GUES collection (labels: "16.", blue round tab, "*Pimpla erythronotus*. KRCHB.") agrees with the description of *Epiurus erythronotus* FÖRSTER and belongs to *Scambus elegans* (WOLDSTEDT). Therefore both taxa are formally synonymized (syn. nov.).

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Anmerkung zu J. GEBERT: Sandlaufkäferfauna des Sudan

(Coleoptera, Cicindelidae)

Dieter KOCK

Eine kleine Aufsammlung sudanesischer Cicindelidae hat GEBERT (1993) bearbeitet, wobei er auf die an den Exemplaren befindlichen Sammeldaten angewiesen war. Der Verfasser der vorliegenden Notiz war in jedem Fall der Sammler der aufgezählten Arten, aber die Präparation und Beschriftung der Käfer wurde von anderen vorgenommen. Neben unwesentlichen Kleinigkeiten muß ich jedoch einen Sammelumstand klären, um Spekulationen über die Lebensweise der betreffenden Sandlaufkäfer vorzubeugen.

Als bemerkenswerter Umstand wird von GEBERT (1993) verständlicherweise hervorgehoben, daß *Salpingophora rueppeli* (GUÉRIN-MÉNEVILLE [sic!] 1847) und *Cephalota litorea* (FORSKÅL, 1775) nach Angaben des Sammlers an einem toten Selachier gefunden wurden. GEBERT folgert aus der vorhandenen Information auf Necrophagie bei den genannten Arten, für die er aber keine Daten kennt. Die Redaktion hat in einer Anmerkung bedachtsamerweise die Jagd auf aasbesuchende Insekten für die genannten Sandlaufkäfer als wahrscheinlicher gehalten.

In der Tat habe ich am (hier nachgetragene Daten) 25. April 1965 in Halût, nördlich von Port Sudan, tagsüber unmittelbar an der Roten Meer-Küste Cicindelidae auf Schlickboden gefangen, aber ab dem 27. April 1965 mehrere Aaskäfer ebenfalls tagsüber unter dem Kadaver eines Rochen (Selachier) am Strand ca. 30-50 km südlich von Port Sudan gesammelt. Keinesfalls ist unter der angeführten Fundangabe die Stadt Port Sudan zu verstehen; die Details von zwei